App. F. IX—4

Previous References

File No. PW 288 KRS 58

Serial Nos.

Later References

THE MYSORE GOVERNMENT SECRETARIAT

Serial Nos.

Part B for

SUBJECT

Rainfall statistics in the catchment of KRS Reservoir.

WD 38981—GPB—2,00,000—1-5-61

19

4/11/58

27/11/63

Notes pages 9

Correspondence pages 63

C/B ... B.

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R

RAINFALL STATISTICS IN THE CATCHMENT OF K.R.S. RESERVOIR WITH REFERENCE TO REGULATION AND MAINTAINING THE M.W.L.

Mysore Government Secretariat

File No pwd 88 KRS of 1958.

[App F III 2

Serial No.

1) Letter No.1549 dated 27-9-1958 from the Executive Engineer, K.R.S. Division, Krishnarajasagar.

2) The P.U.D. may kindly be perused along with keys and plot at p.8/cf which is self explanatory.

3) It is reported that the maximum water level of K.R.S. reservoir was fixed at 124.00 by the 1924 agreement and subsequently raised to 124.80 to realise the effective capacity of 44,827 M.Cft. agreed to. The Chief Engineer, Madras disputed the correctness of this level and the level of 124.64 was arrived at as the correct level. In the absence of Government approval to this change, water is still being stored up to 124.80. ~~Sanction~~ Approval of Government has been sought for fixing the level at 124.64.

4) Besides the above, the Executive Engineer, K.R.S. in his letter under consideration has requested in the circumstances stated therein sanction of Government for the following:

(1) To direct the Deputy Commissioners of Mercara, Chickmagalur, Hassan, Mysore and Mandya to regularly send rain-guages to the Regulation Officer (Asst. Engineer, No.1, Sub-dn., K.R.Sagar).

(2) To authorise the above Deputy Commissioners to incur the expenditure for sending rain-guages of more than 1" by telegram during the monsoon period ~~of~~ from June to September, i.e. four months.

(3) To include this as a standard item of expenditure in the budget under "XVII - I.N.E.D." every year

5) Submitted for orders, in consultation with the Finance Department.

6) F.D.

Mains 4/11/58 MCL 4/11/58

6P 14/11/58

W I 8/11/58

FINANCE DEPARTMENT No. 3284 WI/58 15 NOV 1958 GOVERNMENT OF MYSORE

No.3284/WI. Finance Department, Works & Schemes Branch-I.

7) This is an important proposal which should have been seem by the Secy.P.W.D.before it was put up to this Department particularly with regard to fixation of the storage level. It is said that the

Note.—Contn. Sheet

File No. KBK 556 of 195 .

Mysore Government Secretariat

Serial No. 3284-WI

level was raised to 124.80 from 12400 to realise the effective capacity of 44827 million cubic feet which we are probably entitled to under the agreement between this Govt. and Madras. Just because the Chief Engineer, Madras has protested against this level, it cannot be reduced to 124.64. It is not known what the effective capacity would be at this level. The question has not been examined by the Chief Engineer. The relative papers with regard to the previous decision fixing the level at 124.80 have also not been put up. It is very necessary that we are sure that we get what we are entitled to before a decision is taken.

MYSORE GOVERNMENT SECRETARIAT NO. 14420 23 DEC 1958 PUBLIC WORKS, GENERAL IRRIGATION BRANCH

Extract from F.D. papers.

Id/(M.Veeraraj Urs),
Dy.Secy.F.D.26/11.

Id/-F.S.
3/12

Id/Dy.Secy.
F.D.3/12.

M. Veeraraj Urs
Deputy Secy. Finance Deptt

8) wor to P.W.D) DC 6.12.58

The Secy, P.W.D. has seen this, vide his noting on Pp.3 C.E. He has also opined that action will have to be taken without waiting for a report from the C.E., the fixing up of the storage level at 124.64, instead of at 124.80, has already been examined and agreed upon. As required by the F.D., all the connected papers may be put up to the C.E. also addressed.

9.12.58

MYSORE GOVERNMENT SECRETARIAT NO. 8 DEC 1958 PUBLIC WORKS MAJOR IRRIGATION BRANCH

9) draft is put up for approval

10) The G.I. Section may kindly be requested to make available the previous record on this subject.

Secy. to G.O. Dec 11/12/58

(11) The previous order dated 9.8.1958 perhaps it is available in S.R. which may be recalled.

11/12

(12) draft put up may kindly be approved.

WD 01774—GPB—PZS—300,000—25-10-57

Mysore Government Secretariat (71) | File No. PWD 88 KRS 58. of 195 . | [App. F. III 2

Serial No.

(13) This issue is being unnecessarily delayed. The previous orders and the relevant file must be available in the Secty. The draft may, however, issue, and the connected papers obtained and put up early.

27.12.58

(14) Seen and noted. H.D. will please put up connected papers, if any.

31.12.58

No paper is available with me.

12/1/59

12/1/59

16) Await details from C.E. and remind by the end of the Month if no reply is received by then.

12.1.59

17) Reply from CE&P awaited. Draft & for reminder are for signature

Sees "A" 10/12/59

16/12/59

18) Despatched in No. P.W.D. 88 KRS 58
Dated..... 10/12/59.....
GS

letter No. 14116/MA dt. 15-1-1960 from the CE&P Mysore.

19) P.W.D is for perusal, requesting for a copy of G.O. of 2-1-1959.

20) Order of Govt. "may be sent"

21) Draft letter forwarding copy put up for approval.

Sees "A" 14/2

Rec 30/1/60

22) Issue 5/2

23)

Despatched in No. P.W.D.88.KRS 58
Dated 10th Feb 60
GS

1 PTO

Note.—Contn. Sheet

File No. PWD 88 KRS of 1958.

Mysore Government Secretariat

Serial No.

24) orders have been issued on the same subject on the file of PWD 100 KRS 58 during June 1960. As such this file may be closed.

Recd 11
5/8
Reopened the file on 14/9/60

RT 8/60 8/8/60

(25) Yes 48

Letter No. KRS/TEC/WRM/12/AA 2/60-61 of 3-8-1960 from the Chief Engr. I.P. Munirabad.

(26) PWD is for perusal. pages 25 to 28 c/s

The Chief Engr. I.P. has requested for Govt. sanction on the following points:—

(1) To direct the Deputy Commissioner of Mercara, Chickmagalur, Hassan, Mysore and Mandya, to send regularly rainguage readings to the Regulation officer (Assistant Engineer No.1 Sub-on Krishnarajasagar)

(2) To authorise the above Deputy Commissioners to incur the expenditure for sending rainguage readings of more than 1" by telegram during the monsoon period from June to Sept, i.e. 4 months in the year.

WD 6559—GPS—PZS—2.00,000—1958

Mysore Government Secretariat

P W D File No: 88 KRS of 1958.

[App. F. III 2

Serial No.

(3) To include this as a standard item of expenditure in the Budget under XV-II I.R.E.D. every year.

(4) To fix the M.W.L of the reservoir at 124.64.

27) Orders of Govt. on ⇒ items 2 & 3 referred to above have already been issued in Govt. No. PWD. 100 KRS 58 dated 11-15-6-1960, and that the chief Engr has sought approval of Govt on the remaining two points viz items 1 & 4 i.e.

(a) To direct the Dy. Comrs of Mercara, Chikmagalur, Hassan, Mysore & Mandya to send regularly rainguage reading to the Regulation officer (Assistant Engineer No. 1 Sub-Div Krishnarajasagar).

(b) To fix the M.W.L. of the Reservoir at 124.64.

28) Action on 27 a can now be taken & accordingly draft letter to all DCs is (a) put up for approval & after issue of letter (b) action on 27 b may be taken afterwards for approval.

(29) Issue of put up

(30) Despatched vide No. P.W.D. 88 K.R.S. 58 Dated 19.9.60.

Note.—Contn. Sheet

Rainfall Statistics in the catchment of KR Sagar Reservoir with reference to regulation & maintaining M.W. level.

File No. PWD 88 ~~KRS~~ of 1958.

Mysore Government Secretariat

Serial No.

(31) The file is resubmitted after issue w.r.to paragraphs 28 & 29 of N/S.

Please speak to 21/9

21/9/60. 21/9/60

(32) Spoken. A draft letter as suggested is put up for approval.

23/9/60 23/9/60

33) Issue to [illegible]

Despatched in No. P.W.D 88 KRSS

Dated 27th Sept 60

SW "A" 27/9

34) No Reply have not been received so far — Submitted for order

16/1/62. 35) Ref. para 34. The notes in paras 26 to 33 above may please be seen. The matter dealt with in this file and in respect of which a report has been called for in our letter at page 45 CF requires to be pursued vigorously. Hence CE may be reminded for the report due from him. Draft placed at page 47 CF for approval.

9/2/62

(36) Issue

14/2/62

(37) Despatched in No. P.W.D. 88 KRSS

Dated 14th Feb 62

SW A

14/2/62

WD 04700—GPB—PZS—8,00,000—1958

Mysore Government Secretariat

PWD File No. 88 KRS of 1958. [App. F. III 2

Serial No.

letter No. KRS/TEE/DAM/12/TA-2/62 dt 13-3-62 from the Chief Engr I/C Mysuru

(38) PWD is for perusal-page 53 C/f wherein paras 3 & 7 of the GL on page 44 C/L. Being an interim reply, a further reply may be awaited.

Sec A

6/4/62

KR 7.4.62

(39) A draft reminder put up is for appl.

MP 11/10/62.

(40) Issue

(41) Issued

Encls.....

Date.....16.10.62.....

11/10/62

(42) Reply still awaited. Repeat reminder at page 57 C/f

30/8/63

(43) Issue (Draft & fair pt)

31/8/63

(44) Despatched in No. P.W.D. 88 KRS 58

Dated.....3.9.63.....

My A

To remind on 4/10/63

4/9

letter No. KRS/TE4 3-1/TA-2 dt 16-10-63 from the CE I/C Bangalore.

(45) PWD is for perusal at pages 57 to 61 C/f which is with ref. to

Note.—Contn. Sheet

Rainfall Statistics in the Catchment of K.R.Sagar

File No. PWD 88 KRS of 195 — Mysore Government Secretariat 119

Serial No.

Ref. at page 45 C.F. The Chief Engr. I.P. has now furnished the report based on calculation sheets etc. submitted for perusal & orders.

HD typed by yr

27/10 29/10 31/10-

46)

Spoken to

It is stated that the maximum water level of K.R.S. reservoir was fixed at RL 124.00 by the 1924 agreement and subsequently raised to 124.80 to realise the permissible effective capacity of 44,827 M.C.Ft. It is also stated that the Madras Government disputed the correctness of the level of 124.80 . During Nov. 1958 the CE, Major Irrigation had reported that on a further verification the level of 124.64 was arrived at as the correct level, and as such he requested for approval of Government to fix M.W.L. at RL 124.64. The C.E., IP, who was requested during September 1960 to examine the same has now stated that the capacity obtained by using Madras Chief Engineer's formula, fairly tallies with the jointly accepted capacities and that there is large variation of values obtained by adopting the formula of the CE (General) inside Statement Flag "H".

47

48

The proposal to reduce the MWL from 124.80 to 124.64 was sought for as far back as Nov. 1958.

WD 04700—GPB—PZS—8,00,000—1958

Mysore Government Secretariat

File No. PWD 88 KRS of 1963

[App. F. III 2

Serial No.

It is not known whether the M.W.L. of 124.80 is still maintained and whether approval is still required to reduce it to 124.64.

8/11/63

11/11

JOINT SECRETARY TO GOVT
No 3298
12 NOV 1963
26
PUBLIC WORKS DEPARTMENT

Discuss
12.11.63

D.S.I.D)

Discussed. This case need not be pursued and may be recorded.

D.S.I.D)

26.11.63

26/11

26/11

will be recorded as a "B" record

If approved
27/11

'B' Record

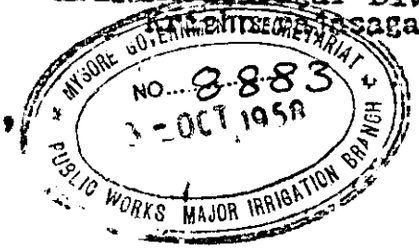
27/11

29/11

Note.—Contn. Sheet

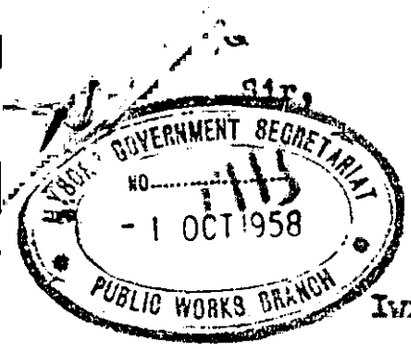
No. 15691/8-9

Office of the Executive Engineer,
Krishnarajasagar Division,
Krishnarajasagar.



To

The Superintending Engineer,
Cauvery Circle,
Mysore.



Sir,

Sub: Rainfall statistics in the catchment of K.R.S.Reservoir with reference to regulation and maintaining the M.W.L.

I write to invite kind reference to this office No. 1183-87 dated 8-8-58 submitting copy of letter addressed to the Deputy Commissioners of Mercara, Chickmagalur, Hassan, Mysore and Mandya Districts, regarding furnishing of rain ~~ENGR~~ gauges at the several stations in the catchment of the K.R.S.Reservoir and wish to further report as follows:-

The maximum water level of K.R.S.Reservoir was fixed at 124.00 by the 1924 Agreement and subsequently raised to 124.80 (please vide letter No. P.W. 4400/9th Aug. 1950 from the Secretary to Government, P.W.D. to the Chief Engineer in Mysore) to realise the effective capacity of 44827 M.cft. agreed to.

The Chief Engineer, Madras disputed the correctness of the level of 124.80 and on further verification the level of 124.64 was arrived at as the correct level and the Chief Engineer (General) has been addressed in this office No.1848 dated 17-10-57 to obtain approval ofGovernment for the same, pending which water is being stored up to 124.80.

As per instructions laid down, the reservoir level is to be depleted to + 123.00 in a rising flood and regulation effected in such a manner, as to keep the level in the vicinity of 123.00, the level being picked up to the prescribed M.W.L. as the floods commence to recede and water impounded again until the non-impounding limit is reached.

Sometimes, it happens that the reservoir fails to pick up to 124.80, (as exhibited in the enclosed statement for several yrs) in spite of regulation being done with the greatest possible accuracy and vigilence, by obtaining the gauges from the Upper Standard station, due to sudden fall, sometimes, in the inflow. The regula-

regulation could be done with greater accuracy, if a prior knowledge of rainfall in the catchment area above the Reservoir were available and advantage taken to impound a larger quantity, without the danger of either exceeding the M.W.L. or undly depleting the Reservoir. It is ordinary experience that regulation of flood from the Reservoir is easy when the floods rise or fall gradually and the difficulty comes when either rise or fall is sudden.

In addition to the above advantage gained by a knowledge of rainfall in the upper catchment in regulating the impounding, knowledge of rainfall in the V.C. area below the Reservoir, would also be useful in regulating the issues to V.C. as well, and conserve the water in the Reservoir for a longer period.

Thirdly the knowledge of heavy rainfall in the catchment would be useful in giving flood warning to the area below the reservoir, much earlier than now, as the quantity of heavy flood to be let down the river could be assessed earlier than what could be done, with only the information of the discharges at the standardx stations.

Immediately I took charge of this division, the Deputy Commissioners concerned were requested by me to direct their Tahsildars to furnish to my Assistant Engineer, No.I.Sub Division, K.R. sagar (who is the regulation officer) promptly the daily gauges of rain fall. But only in a few cases this request of mine was complied.

I, therefore, request that sanction of Government may kindly be obtained for

1) To direct the Deputy Commissioners of Mercara, Chickmagalur, Hassan, Mysore and Mandya to regularly send rain gauges to the Regulation Officer (ASSISTANT ENGINEER, No.I.SUB DIVISION K.R.SAGAR);

2) To authorise the above Deputy Commissioners to incur the expenditure for sending rain gauges of more than 1" by telegram during the monsoon period of june to September;

3) To include this, as a standard item of expenditure in the Budget under X.II I.W.E.D. every year;

4) To fix the M.W.L. of the Reservoir @ 124.64.

3

the Reservoir @ 124.64.

Yours faithfully,

(Sd)

(H.Channiah,)
Executive Engineer,
K.R.Sagar Division.

HCH

Memo No. 1550 8 Dated 27.9.58

Copy, together with statements referred to above, is submitted to the Secretary to P.W.D. Bangalore, for information, with reference to his kind enquiry on 13-9-58 at Bangalore, regarding regulation during rising and falling floods into the Reservoir.

8883/M1

Executive Engineer,
K.R.Sagar Division.

Submitted for favour of perusal & filing.

Secy (Irrn)

SECRETARIAT
27 OCT 1958
PUBLIC WORKS & ELEC. DEPTT.

Why do you want to file this
Early action is to be taken in cases of 'A' in
letter and also to issue instructions re: Immediate inform
after about rainfall. You need not await till CE sends a
reply 31/10.

Statement giving Statistics with reference to Regulation and maintaining M.W.L. in some of the years since 1933 when M.W.L. could not be picked up in the receding floods.

Date and Hour of Regulation	Reservoir Level	Corrected Inflow in Cusecs	Impoundable Quantity in Cusecs	Quantity actually impounded in Cusecs	Remarks
		1943			
1-43 9 Am	90·98	13254	Nil	Nil	
43. 9 Am	91·55	27257	3514	3514	
9 Am	92·96	47561	35998	35998	
43 9 Am	97·00	69985	68988	68986	
9 Am	102·90	109098	109098	109098	
43 9 Am	108·22	114206	114206	114206	
9 Am	113·45	127553	127553	127553	
9 Am	118·22	130851	130851	100898	
9 Am	121·80	136761	136761	38256	
9 Am	122·65	126537	126537	35256	
9 Am	12	106544	106544	5148	
9 Am	122·67	90514	90514	Nil	
	122·68	70242	70242	Nil	
	123·19	49146	38534	12510	
	123·85	45588	33321	22649	
	123·77	35914	17362	Nil	
	123·94	29884	7214	7112	
4	124·00	34046	14374	3638	
	124·01	34029	14426	2067	
4	123·63	32892	12527	Nil	
	123·75	29293	6682	5630	
	3·68	35034	15984	Nil	
	65	36265	17924	886	
	123·50	36420	11772	Nil	
6	123·67	27429	3786	7212	
9 Am	123·64	25721	1054	1054	
9 Am	123·64	26946	3014	3014	
9 Am	123·70	28866	6086	6086	
9 Am	123·92	34028	14345	Nil	
9 Am	123·92	37483	19873	Nil	
Am	123·83	42282	27431	Nil	
9 Am	123·71	43322	29215	Nil	
9 Am	123·85	40933	25393	6358	

Engagappa
30.12.43.

Date and Hour of Regulation	Reservoir Level	Corrected inflow in Cusecs	Impoundable Quantity in Cusecs	Quantity actually impounded in Cusecs	Remarks
28-7-43 9 Am	123·93	41200	25820	4460	
" 9 Pm	124·01	38596	21202	4471	
29-7-43 9 Am	123·85	40061	23529	Nil	
" 9 Pm	123·81	37401	19304	696	
30-7-43 9 Am	123·81	32265	11147	1961	
" 9 Pm	123·80	28623	5362	5362	
31-7-43 9 Am	123·73	22665	Nil		
" 9 Pm	123·60	22341	Nil		
8-43 9 Am	123·50	18474	Nil		
" 9 Pm	123·46	17195	Nil		
8-43 9 Am	123·39	15283	Nil		
9 Pm	123·38	15708	Nil	—	

1953

3 8 Am	58·55	1999	Nil		
" 8 Pm	60·30	10658	Nil	—	
3 8 Am	67·60	64816	63606	63606	
8 Pm	77·00	75889	75889	75889	
3 8 Am	85·30	89159	89158	89158	
8 Pm	92·00	90295	90295	90295	
8 Am	97·10	81406	81406	81406	
8 Pm	101·62	81907	81907	81907	
53 8 Am	105·20	71901	71901	71901	
8 Pm	108·60	74511	74511	74511	
-7-53 8 Am	111·90	78214	78214	78214	
8 Pm	116·62	122446	122446	121746	
53 8 Am	121·50	156918	156918	140355	
" 8 Pm	123·20	166895	166895	52713	
53 8 Am	122·04	179963	179963	Nil	
8 Pm	121·30	142216	142216	Nil	
9-7-53 8 Am	121·80	91188	91188	17086	
" 8 Pm	123·70	73645	73645	61466	
10-7-53 8 Am	124·65	77646	77646	32798	
8 Pm	124·80	46544	34370	7494	

Date and Hour of Regulation	Reservoir Level	Corrected inflow in Cusecs	Impoundable Quantity in Cusecs	Quantity actually impounded in Cusecs	Remarks
11-7-53. 8 Am	124·30	31668	10569	10569	
" 8 pm	124·06	19748	Nil	-	
12-7-53. 8 Am	123·82	18727	Nil	-	
" 8 pm	123·75	15433	Nil	-	
13-7-53. 8 Am	123·76	15824	Nil	-	
" 8 pm	123·68	13938	Nil	-	
		1954			
6-7-54. 8 Am	100·86	19293	Nil	-	
" 8 pm	101·62	41724	26658	26658	
7-7-54. 8 Am	104·44	69033	69033	69033	
" 8 pm	108·65	93551	93551	93551	
8-7-54. 8 Am	113·15	110209	110209	110209	
" 8 pm	117·00	104183	104183	104183	
9-7-54. 8 Am	120·40	99894	99894	99894	
" 8 pm	122·80	106663	106603	74848	
10-7-54. 8 Am	123·40	80416	80416	20761	
" 8 pm	124·30	45105	32068	30645	
11-7-54. 8 Am	124·57	49687	39399	10660	
" 8 pm	124·80	41695	26612	9400	
12-7-54. 8 Am	124·06	34834	15634	Nil	
" 8 pm	124·20	25262	319	319	
13-7-54 8 Am	124·35	32258	11573	11513	
" 8 pm	124·43	27486	3878	3878	
14-7-54. 8 Am	124·27	22195	Nil	-	
" 8 pm	124·05	19493	Nil	-	
15-7-54 8 Am	123·93	14448	Nil	-	
" 8 pm	124·00	17252	Nil	-	
16-7-54 8 Am	123·97	18995	Nil	-	
" 8 pm	123·93	22762	Nil	-	
17-7-54. 8 Am	124·08	32256	11570	11570	
8 pm	124·00	26552	26552	Nil	

Engagaffee
S.O. 2897/58

Date and Hour of Regulation		Reservoir Level	Corrected inflow in Cubecs	Impoundable quantity in Cubecs	Quantity actually impounded in Cubecs	Remarks
			1956			
28-6-56	8 Am	76.60	32721	12254	12254	
"	8 Pm	78.20	40009	23914	23914	
29-6-56	8 Am	81.90	48860	38076	38076	
"	8 Pm	86.50	59346	54854	54854	
30-6-56	8 Am	92.10	75050	75050	75050	
"	8 Pm	97.82	90987	90987	90987	
1-7-56	8 Am	102.70	89375	89375	89375	
"	8 Pm	107.50	99348	99348	99348	
2-7-56	8 Am	111.76	98477	98477	98477	
"	8 Pm	115.78	102521	102521	102521	
3-7-56	8 Am	119.30	97929	97929	97929	
"	8 Pm	122.20	106359	106359	29055	
4-7-56	8 Am	122.44	85013	85013	61619	
"	8 Pm	123.35	52115	43284	35187	
5-7-56	8 Am	124.42	52683	44193	7848	
"	8 Pm	124.75	57724	52258	Nil	
6-7-56	8 Am	124.20	53482	45471	Nil	
"	8 Pm	124.10	55907	49351	Nil	
7-7-56	8 Am	124.11	59380	54908	6029	
"	8 Pm	124.17	57680	52188	4329	
8-7-56	8 Am	123.95	49368	38889	Nil	
"	8 Pm	124.40	31795	10772	10772	
9-7-56	8 Am	124.58	33391	13326	13326	
"	8 Pm	124.50	24937	Nil	Nil	
10-7-56	8 Am	124.30	20997	Nil	Nil	
"	8 Pm	124.08	18327	Nil	Nil	
11-7-56	8 Am	124.12	20423	Nil	Nil	
"	8 Pm	124.21	29870	7692	7692	
12-7-56	8 Am	124.38	27306	3590	3590	
"	8 Pm	124.53	30330	8426	5393	
13-7-56	8 Am	124.46	25099	58	58	
"	8 Pm	124.27	20982	Nil	—	
14-7-56	8 Am	124.08	15307	Nil	—	
"	8 Pm	124.07	15090	Nil	—	
15-7-56	8 Am	124.02	15386	Nil	—	
"	8 Pm	123.93	12970	Nil	—	

× × × × × × ×

Executive Engineer
S.O. 287/58

(7)

Date and Hour of Regulation	Reservoir Level	Corrected inflow in Cusecs	Impoundable Quantity in Cusecs	Quantity actually impounded in Cusecs	Remarks
18-7-54 8 Am	122·80	78528	78528	Nil	
" 8 Pm	123·12	43731	29870	12360	
19-7-54 8 Am	123·90	52376	43702	27014	
" 8 Pm	124·60	34542	15167	15167	
20-7-54 8 Am	124·20	32053	11185	11185	
" 8 Pm	123·90	17857	Nil	-	
21-7-54 8 Am	123·78	17482	Nil	-	
" 8 Pm	123·75	16635	Nil	-	
22-7-54 8 Am	123·68	15359	Nil	-	
" 8 Pm	123·58	13385	Nil	-	
		× × × × × ×			
4-8-54 8 Am	121·62	17521	Nil	-	
" 8 Pm	121·72	25606	570	570	
5-8-54 8 Am	121·87	32269	11153	11153	
" 8 Pm	122·40	39944	23343	23343	
6-8-54 8 Am	123·40	59113	53790	53790	
" 8 Pm	123·74	95975	95975	13285	
7-8-54 8 Am	123·33	104841	104841	Nil	
" 8 Pm	123·10	107724	107724	Nil	
8-8-54 8 Am	122·31	99043	99043	Nil	
" 8 Pm	122·46	78143	78143	7245	
9-8-54 8 Am	123·40	79546	79546	24965	
" 8 Pm	124·03	71093	71093	22576	
10-8-54 8 Am	124·12	65053	63224	5524	
" 8 Pm	124·60	49264	38147	18154	
11-8-54 8 Am	124·62	45166	31638	3263	
" 8 Pm	124·84	30608	8515	8515	
12-8-54 8 Am	124·70	38114	20437	Nil	
" 8 Pm	124·73	28724	5523	3715	
13-8-54 8 Am	124·68	27185	3078	3078	
" 8 Pm	124·61	23230	Nil	-	
14-8-54 8 Am	124·45	21864	Nil	-	
" 8 Pm	124·35	19218	Nil	-	
15-8-54 8 Am	124·32	19255	Nil	-	
" 8 Pm	124·28	21129	Nil	-	

Guruzappa
S.O. 287/55

Date and Hour of Regn		Reservoir Level	Corrected inflow in Cusecs	Irrigable Quantity in Cusecs	Quantity actually irrigated in Cusecs	Remarks
			× × × × × ×			
16-8-56	8Am	123·95	27522	3613	3613	
	8pm	124·60	49122	37921	nil	
17-8-56	8 Am	124·73	62861	59743	7010	
"	8 pm	124·61	54350	47019	nil	
18-8-56	8 Am	124·61	44285	30238	2843	
"	8 pm	124·79	29079	6086	6086	
19-8-56	8 Am	124·85	33980	13871	4781	
	8 pm	124·88	36454	1917	1917	
20-8-56	8 Am	124·76	24157	nil	nil	
	8 pm	124·56	21566	nil	nil	
21-8-56	8 AM	124·40	18801	nil	nil	
	8 PM	124·32	17247	nil	nil	
22-8-56	8 AM	124·29	17753	nil	nil	
	8 pm	124·19	16833	nil	nil	

1957

7-7-57	8 Am	102·28	27598	4057	4057	
"	8 pm	102·86	36873	18897	18897	
8-7-57	8 Am	104·50	48177	36983	36983	
"	8 pm	107·25	62440	59804	59804	
9-7-57	8 Am	110·50	75679	75679	75679	
"	8 pm	113·80	83325	83325	83325	
10-7-57	8 Am	116·44	71575	71575	71575	
"	8 pm	118·80	67894	67894	67894	
11-7-57	8 Am	120·72	58334	53234	53234	
"	8 pm	122·40	55835	49236	49236	
12-7-57	8 Am	123·62	50757	41111	41111	
"	8 pm	124·30	45071	32014	806	
13-7-57	8 Am	124·28	45783	33153	1518	
"	8 pm	124·70	36403	18145	15925	
14-7-57	8 Am	124·58	46334	34034	nil	
	8 pm	124·15	44089	30442	nil	
15-7-57	8 Am	124·10	41039	25562	nil	
	8 pm	124·07	61590	58444	1518	

Evangelina
5.0.289/58

Date and Hour of Regulation	Reservoir Level	Corrected inflow in Cusecs	Impoundable Quantity in Cusecs	Quantity actually impounded in Cusecs
16-7-57 8 Am	123.30	73615	73615	nil
" 8 pm	122.23	87846	87846	nil
17-7-57 8 Am	122.65	64504	63106	15604
" 8 pm	123.92	59735	55476	42580
18-7-57 8 Am	124.35	61837	58839	16508
" 8 pm	124.48	42316	27606	6913
19-7-57 8 Am	124.72	31377	10135	6315
" 8 pm	124.77	29411	6958	6958
20-7-57 8 Am	124.66	24228	nil	nil
" 8 pm	124.47	21642	nil	nil
21-7-57 8 Am	124.10	15501	nil	nil
" 8 pm	123.94	11019	nil	nil
22-7-57 8 Am	12409	17317	nil	nil
" 8 pm	124.09	19098	nil	nil
23-7-57 8 Am	123.98	17248	nil	nil
8 pm	123.93	19190	nil	nil

1958

~~9-7-58 8 Am~~	~~118.96~~	~~29225~~		
9-7-58 8 pm	118.96	29225	6660	6660
10-7-58 8 Am	119.32	32067	11207	11207
" 8 pm	119.92	38186	38186	20998
11-7-58 8 Am	120.73	41036	25558	25558
" 8 pm	122.04	54801	47582	47582
12-7-58 8 Am	123.64	82450	82450	52372
" 8 pm	124.08	93826	93826	16417
13-7-58 8 Am	124.00	83532	83532	nil
" 8 pm	124.00	70854	70854	2436
14-7-58 8 Am	124.32	45471	32654	12760
" 8 pm	124.82	38825	22020	18607
15-7-58 8 Am	124.98	62352	59663	7591
" 8 pm	124.29	85671	85761	nil
16-7-58 8 Am	123.48	86157	86157	nil
8 pm	123.43	75932	75932	nil
17-7-58 8 Am	123.61	80086	80086	8035
8 pm	123.92	83105	83105	12305

Enagappa
S.O. 289/58

8

(11

Date and Hour of Regulation		Reservoir Level	Corrected inflow in cusecs	Impoundable Quantity in cusecs	Quantity actually impounded in cusecs	Remarks
18-7-58	8 Am	123·84	81897	81897	nil	
"	8 Pm	123·91	72564	72564	4682	
19-7-58	8 Am	123·91	67222	67222	2562	
"	8 Pm	124·04	71465	71465	6718	
20-7-58	8 Am	124·11	69741	69741	4845	
"	8 Pm	124·05	65575	64820	646	
21-7-58	8 Am	124·19	57593	42449	7268	
"	8 Pm	124·53	44321	30814	13729	
22-7-58	8 Am	124·92	38407	21351	15344	
	8 Pm	124·88	43121	28894	nil	
23-7-58	8 Am	124·82	44618	31289	nil	
"	8 Pm	124·60	80787	80787	nil	
24-7-58	8 Am	123·80	75361	75361	nil	
"	8 Pm	123·54	57292	51567	nil	
25-7-58	8 Am	123·80	46816	34806	10818	
"	8 Pm	124·20	34802	15583	15583	
26-7-58	8 Am	124·35	32579	12026	12026	
"	8 Pm	124·23	23728	nil	nil	
27-7-58	8 Am	124·12	24072	nil	nil	
	8 pm	123·96	22454	nil	nil	
28-7-58	8 Am	123·74	20505	nil	nil	
	8 Pm	123·66	18861	nil	nil	

Assistant Engineer 29/9
No. 1, Sub Division,
Krishnarajasagar.

Gurgappa
S.O. 289/58

29/9

PWR 88 ICRS 58

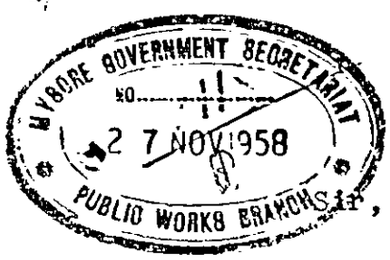
13

No. 2857-58/5 KRS.
Encl. 1cr

Dated: 27 November 1958.

To

The Secretary to Government,
Public Works Department,
BANGALORE.



Re: Rainfall statistics in the catchment of K.R. Sagar Reservoir with reference to regulation and maintaining M.W.L.

I write to enclose herewith a copy of letter No.1549 dated 27-9-58 of the Executive Engineer, Krishnarajasagar Division on the above subject furnishing a detailed report in regard to the proper regulation of Krishnarajasagar gates during high floods and to request you kindly to obtain and communicate orders of Government to the following in order to facilitate the proper regulation.

1) To direct the Deputy Commissioners of Mercara, Chickmagalur, Hassan, Mysore and Mandya, to send regularly raingauge readings to the Regulation Officer(Assistant Engineer, No.1 Sub Division, Krishnarajasagar).

2) To authorise the above Deputy Commissioners to incur the expenditure for sending raingauge readings of more than 1" by telegram during the monsoon period from June to September, that is 4 months in the year.

3) To include this as a standard item of expenditure in the Budget under XVII I.N.E.D. every year.

4) To fix the M.W.L. of the reservoir at 124.64.

Yours faithfully,

CHIEF ENGINEER,
MAJOR IRRIGATION (SOUTH).

Tvn:24/11

File already submitted for approval on 4.11.58.
From the diary it is verified that the file has been referred to Govt on 14.11.58.
This will be taken to file on its receipt.
MLS
3/12/58
3/12

Letter No.1549 dated 27-9-58 from the Executive Engineer, K.R.Sagar Division, to the Superintending Engineer, Cauvery Circle, Mysore,

---

Re: Rainfall statistics in the catchment of K.R.Sagar Reservoir with reference to regulation and maintaining the M.W.L. (Rain gauging stations).

I write to invite kind reference to this office No.1183-87 dated 8-8-58 submitting copy of letter addressed to the Deputy Commissioners of Mercara, Chickmagalur, Hassan, Mysore and Mandya Districts, regarding furnishing of rain gauges at the several stations in the catchment of the K.R.S. Reservoir and wish to further report as follows:

The maximum water level of K.R.S. reservoir was fixed at 124.00 by the 1924 agreement and subsequently raised to 124.80 (please vide letter No.PW.4400/9th August 1950 from the Secretary to Government, P.W.D., to the Chief Engineer in Mysore) to realise the effective capacity of 44827 M.cft. agreed to.

The Chief Engineer, Madras, disputed the correctness of the level of 124.80 and on further verification the level of 124.64 was arrived at as the correct level and the Chief Engineer(G1) has been addressed in this office No.1848 dated 17-10-57 to obtain approval of Government for the same, pending which water is being stored up to 124.80.

As per instructions laid down, the reservoir level is to be depleted to plus 123.00 in a rising flood and regulation effected in such a manner, as to keep the level in the vicinity of 123.00 the level being picked up to the prescribed M.W.L. as the floods commence to recede and water impounded again until the non-impounding limit is reached.

Sometimes, it happens that the reservoir fails to pick up 124.80 (as exhibited in the enclosed statement for several years) in spite of regulation being done with greatest possible accuracy and vigilence, by obtaining the gauges from the Upper Standard Station, due to sudden fall, sometimes, in the inflow. The regulation could be done with greater accuracy if a prior knowledge of rainfall in the catchment area above the reservoir were available and advantage taken to impound a larger quantity without the danger of either exceeding the M.W.L. or unduly depleting the reservoir. It is ordinary experience that regulation of floods from the reservoir is easy when the floods rise or fall gradually and the difficulty comes when either rise or fall is sudden.

In addition to the above advantage gained by a knowledge of rainfall in the upper catchment in regulating the impounding, knowledge of rainfall in the V.C. area below the reservoir would also be useful in regulating the issues to V.C. as well, and conserve the water in the reservoir for a longer period.

Thirdly, the knowledge of heavy rainfall in the catchment could be useful in giving flood warning to the area below the reservoir, much earlier than now, as the quantity of heavy flood to be let down the river could be assessed earlier than what could be done, with only the information of the discharges at the standard stations.

Immediately I took charge of this Division, the Deputy Commissioners concerned were requested by me to direct their Tahsildars to furnish to my Assistant Engineer, No.1 Sub-Division, K.R.Sagar (who is the regulation officer) promptly, the daily gauges of rainfall. But only in a few cases this request of mine was complied with.

I therefore request that sanction of Government may kindly

P.T.O.

may kindly be obtained to:

1. To direct the Deputy Commissioners of Mercara, Chickmagalur, Hassan, Mysore and Mandya, to regularly send rain gauges to the Regulation Officer (Assistant Engineer, No.1 Sub-Division, K.R.Sagar.)

2. To authorise the above Deputy Commissioners to incur the expenditure for sending rain gauges of more than 1" by telegram during the monsoon period of June to September, that is, 4 months.

3. To include this, as a standard item of expenditure in the budget under XVII I.N.E.D. every year.

4. To fix the M.W.L. of the reservoir at 124.64.

/COPY/

FOR CHIEF ENGINEER,
MAJOR IRRIGATION(SOUTH).

Tvn:25/11

17.

Appendix F. G.—1]

SUBJECT Rainfall Statistics in the Catchment of K.R. Sagar Reservoir with reference to Regulation and Maintenance W.D.K.

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 195

Date of issue.....

Signed by.....

File is referred to S.I. for making available the Central Records. Meanwhile the draft may kindly be approved.

Minor 12/2

List of enclosures .....

Copied by.....

Examined by .....

Section

File No. PWD 88 ICRS 58.

Serial No.

No.

To Ch: Engr (S).

Sir,

With reference to your letter No 2853-58/S/ICRS dt. 22-11-58 on the subject cited above I am directed to request that the relative papers with regard to the previous decision fixing the level at 124.80 may kindly be sent.

The effective capacity of level at 124.64 may also be intimated.

An immediate reply in the matter is requested

Yours F

CE
27/12/PWD

Mel
27/12/58 Minor
11/12

GOVERNMENT OF MYSORE

19

Mysore Government Secretariat,
Vidhanasoudha,
Bangalore, dated 10 -12- 1959

No.PWD 88 K.R.S. 58.

From

The Secretary to Government,
Public Works Department, Bangalore.

To

The C.E.I.P. Munirabad.

Sir,

Sub: Rainfall statistics in catchment of K.R.Sagar Reservoir with reference to regulation and maintenance the M.W.L.

I am directed to invite a reference to the marginally noted communication/s, and to request you kindly to furnish the reply, immediately.

Ref: P.W.D.88 K.R.S.58 of 2-1-1959.

Despatched in the P.W.D.
Dated 10/12/59
GS

Yours faithfully,

for Secretary to Government,
Public Works Department.

GOVERNMENT OF MYSORE

TELE { GRAM: "PROJECTS"
PHONE:

Office of the Chief Engineer, P. W. D.,
~~*Major Irrigation* (NORTH)~~ Projects
MUNIRABAD (S. Rly.)

No 1416/TA4.

Dated 15-1-1960.

To.

The Secretary to Government of Mysore,
Public Works Department,
"VIDHANA SOUDHA" BANGALORE.

MIS

SUBJECT: Rainfall statistics in catchment of K.R.sagar Reservoir with reference to regulation and maintenance the M.W.L

~~Reference:~~

No 683

Sir,

Adverting to your letter No. PWD 88 KRS 58 of 10th December 1959 on the above subject I request you kindly forward a copy of your original letter No. PWD 88 KRS 58 of 2nd January 1959 mentioned therein as the same is found not readily traceable.

It is to mention here that it had been requested in this office No.2857-88/KRS of 27th Novr. 1958 to obtain and communicate orders of Government on certain specific points detailed therein in order to facilitate the proper regulation.

Yours faithfully,

for Chief Engineer, PWD.,
Irrigation Projects.

VS/8/1

23

No PWD. 8 & KRS 58

D. Jan 1960.

To

The Chief Engr.
I.P. Mysore.

Sir,

Subject:— Rainfall statistics in catchment of K.R. sagar Reservoir with reference to regulation & maintenance ~~the~~ M.W.L.

Ref:— your letter no. 1416/78 dy 15-1-1960.

I am directed to enclose herewith a copy of ~~G.L~~ of even number dt. 2-1-1959 as desired.

Dispatched In No. P.W.D.
Dated 16/2/60

Yours faithfully

for
SI -
Ll S PWD
30/1/60.
2/2/60

25

GOVERNMENT OF MYSORE.

TELE { GRAM; "PROJECTS" / PHONE:

Office of the Chief Engineer, P. W. D.,
Irrigation Projects.,
MUNIRABAD (S. Rly.)

No. K.R.S/TE e/DAM/12/TA2/60-61 Dated 3-8-1960

Enclo:- One letter copy
one copy 1 note
Two maps

To,

The Secretary to Govt. of Mysore,
Public Works Department,
Vidhana Soudha',BANGALORE.

8 AUG 1960

SUBJECT: Rainfall statistics in catchment of K.R.Sagar with reference to regulation and maintenance of M.W.L.

--- B 9 1960

Reference: Your original No. PWD 88 KRS 58 dt. 2-1-59.
this office no 2857-58/S/K-R-S dated 27/11/58

Sir,

With reference to the above subject, I forward herewith a copy of letter No. 686-8/CD dated 7th June,1957 of the Chief Engineer(General) Mysore, addressed to the Chief Engineer (Irrigation) Madras and a copy of note on fixation of level of K.R.Sagar Reservoir corresponding to a capacity of 44827 M.Cft. as desired in your letter cited above. As already reported in this office No. under advertance, the F.T.L. of K.R.Sagar Reservoir was fixed at 124.00 by the 1924 agreement and subsequently raised to 124.80 (vide letter No. P.W. 4400/ 9th August 1950 from the Secretary to Govt. P.W.D., to the Chief Engineers in Mysore) to realise the effective capacity of 44827 M.Cft. agreed to.

I request you kindly to obtain and communicate orders on the points (1) and (4) referred to in this office No. 2857-58 KRS dated 27-11-1958 to facilitate the proper regulation of the reservoir.

P.T.O.

As regards to the points (2) and (3) no action is necessary as Government have accorded sanction to the ~~estimate~~ estimate amounting to Rs. 1,200/- for meeting the telegram charges.(Vide G.O.No. PWD 100 KRS 58 Bangalore dated 11/15th June,1960).

Yours faithfully,

for Chief Engineer,PWD.,
Irrigation Projects.

O.B./-
28/7.

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(3) 27

Copy of letter No.686-8/CD dated 7th June 57 from the Chief Engineer, (General) Bangalore to the Chief Engineer, for irrigation Chepauk Madras-6.

Ref:-Your D.O.No.5274/55-A-9 dated 25th April, 57.

Sub:-Irrigation Madras Mysore Agreement Krishnarajasagar Maximum water level regarding the.

...

With reference to your above, requesting me to furnish calculations in support of the maximum water level viz. 124.80 of the Krishnarajasagar Reservoir, I write to state that annexure II of the 1924. Agreement permits an effective capacity of 44,827 M.cft. for the Krishnarajasagar Reservoir.

The basis for computing the Reservoir level corresponding to the capacity of 44827 M.Cft. is the capacity surveys jointly conducted during 1929-31. As a result of this joint surveys the capacities corresponding to different levels of the Reservoirs have been worked out upto + 126.00

Although it has not been possible to arrive at a single formula for the entire capacity curve in as much as the capacity curve is not a single parabolic curve, but is made up of a number of parabolas, on a careful analysis it may be seen that the capacities corresponding to the different levels from +120.00 to +126.0 generally lie on a parabole answering the equation $Y2 = 4ax$.

With "Y" as the contour level and x as the capacity the value of "a" varies from 0.093 at +120.00 to 0.085 at +126.00 and A2 does not happen to be faithfully a constant.

It may be further be seen that the value of "a" at +124.00 is 0.087 and that + 125.00 is 0.086 in which range the capacity of 44827 M.Cft. is obtained.

Thus with the averaged of 0.087 and 0.086 or 0.087 with rounding off considering three decimal places we have a level of 124.8 corresponding to the stipulated capacity of 44827 Mcf

In view of the silting of the reservoir these three deead decades ever since the contour surveys were finalised and in view of the fact that rules of regulation of Krishnarajasagar reservoir, have been so regid and so metioulous, I fail to

understand as to how this higher level of 124.8 which corresponds to the quantity of 44827 M.cft. is disputed.

sd/- K.Padmanabhan,
for Chief Engineer, (General)

" copy "

sd/-
for Superintending Engineer,
Mysore Circle.

for Chief Engineer, P. W. D.
IRRIGATION PROJECTS,
MUNIRABAD. (S. Rly.)

(5) 29

Note on th fixation of level of the Krishnarajasagar Reservoir corresponding to a capacity of 44,827 M.cft.

The capacity curve is not a single parabole curve but is made up of a number of prabolas. Hence it isnot possible to arrive at a single formula for the entire curve of capacity from +60 to +126.

It is however found that the points of capacity from +120 to +126 is along a parabola which answers the formula Y2 = 4ax.

When a + 0.087 average.

The calculations are noted below:-

x.	a	x	y.
1)	0.093	38641.24	120
2)	0.091	39921.50	121
3)	0.090	41230.25	122
4)	0.088	42567.75	123
5)	0.086	43934.25	124
6)	0.086	45329.75	125
7)	0.079	46754.50	126

Average value of "a" = 0.087

It will be seen from the calculation below that the level of the Reservoir corresponding to a capacity of 44827 M.cft. is 124.82

$Y2 = 4 \times 0.087 \times 44827 = 15598.796$

$Y = \sqrt{15598.796}$

$= 124.82.$

The figure arrived from the tables with the figure obtained from the calculations.

sd/- G. Subba Rao.
Executive Enginee ,
K.R. agar Division,

" Copy "

sd/-
for Superintending Engineer,
Mysore Circle.

K.G. Subba Rao 1/8
for Chief Engineer P.W.D.

1/8

31 No PWD 88 KRS 1958.
Dated. sept 1960.

To

The Deputy Commissioner
Mercara, Chickmagalur, Hassan
Mysore and Shimoga

Sir,

Subject:- Rainguage readings
Supply of —

In enclosing herewith a copy of Go No PWD 100 KRS 58 dated 11/15-6-1960 on the subject, I am directed to request you to ~~please~~ arrange to furnish, supply rainguage readings to the Assistant Engineer No.1 Sub-Dn Krishnarajasagar regularly for a period of 4 months from June to septeber every year.

Yours faithfully

D Hy S

By 12/9

Despatched in No. P.W.D.....
Dated..... 14/9/60

33

GOVERNMENT OF MYSORE

No PWD 83 KIS 58

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore,.....19.. Sept. *196* 0

FROM

The *Secretary to the Government of Mysore,*
Public Works Department.

To

The Deputy Commissioners
Mercara, Chickmagalur, Hassan, Mysore & Mandya.

Sir,

Sub: Rain gunge readings - supply of -

In enclosing herewith a copy of Govt. Order No.PWD 100 KIS 58 dated 11/15-6-1960 on the subject, I am directed to request you to arrange to furnish raingunge readings to the Assistant Engineer No.1 Sub-Dn., Krishnarajasagar regularly for a period of 4 months from June to September every year.

Yours faithfully,

(C.J.Venkatesa Rao)
Deputy Secretary to Government,
Public Works Dept.(Irrigation)

Fol.14.

35

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

Sub:-Standard estimate for meeting Telegram charges for obtaining the rain-fall recorded at the several Rain Gauge stations in the catchment above K.R.Sagar Reservoir.

Read:-

Correspondence ending with letter No.4334/TA 4 of 12-5-60 from the Chief Engineer,Irrigation Projects.

PREAMBLE:-

The Chief Engineer,Irrigation Projects,has forwarded a standard estimate amounting to Rs.1200/-for meeting telegram charges each year for obtaining rainfall if more than 1" recorded at the several important Rain Gauge stations during flood seasons from June to September each year for approval of Government. It is reported that the necessity for obtaining the rainfall by telegram is to have a better control of floods at Krishnarajasagar and to regulate with greater emergency to give flood warning and to minimise any havocs to lives and properties below Krishnarajasagar Reservoir.

GOVT.ORDER NO.PWD 100& KRS 58.
BANGALORE,DATED JUNE 1960.

Under the circumstances;sanction is hereby accorded to the estimate amounting to Rs.1,200/-(Rupees one thousand and two hundred)each year, for meeting telegram charges for obtaining rainfall recorded as mentioned above,commencing from the flood season of 1960-61 and onwards.

The expenditure on this account is debitable under "XVII I.N.E.D.Works".

By Order and in the name of the Governor of Mysore,

C. J. Venkatesa Das 11.6.60

(C.J.VENKATESA DAS)
UNDER SECRETARY TO GOVERNMENT,PWD.

To
The Chief Engineer,Irrigation Projects,Munirabad.
The Superintending Engineer,Mysore Circle,Mysore.
The Executive Engineer,Krishnarajasagar Division,Krishnarajasagar.
The Accountant General(through Finance Department),Bangalore.

ncj/

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

Sub:-Standard estimate for meeting Telegram charges for obtaining the rain-fall recorded at the several Rain Gauge stations in the catchment above K.R.Sagar Reservoir.

Read:-

Correspondence ending with letter No.4334/TA 4 of 12-5-60 from the Chief Engineer,Irrigation Projects.

PREAMBLE:-

The Chief Engineer,Irrigation Projects,has forwarded a standard estimate amounting to Rs.1200/-for meeting telegram charges each year for obtaining rainfall if more than 1" recorded at the several important Rain Gauge stations during flood seasons from June to September each year for approval of Government. It is reported that the necessity for obtaining the rainfall by telegram is to have a better control of floods at Krishnarajasagar and to regulate with greater emergency to give flood warning and to minimise any havocs to lives and properties below Krishnarajasagar Reservoir.

GOVT.ORDER NO.PWD 100 KRS 58.
BANGALORE,DATED JUNE 1960.

Under the circumstances,sanction is hereby accorded to the estimate amounting to Rs.1,200/-(Rupees one thousand and two hundred)each year, for meeting telegram charges for obtaining rainfall recorded as mentioned above,commencing from the flood season of 1960-61 and onwards.

The expenditure on this account is debitable under "XVII I.N.E.D.Works".

By Order and in the name of the Governor of Mysore,

C. J. Venkatesa Das 11.6.60

(C.J.VENKATESA DAS)
UNDER SECRETARY TO GOVERNMENT,PWD.

To
The Chief Engineer,Irrigation Projects,Munirabad.
The Superintending Engineer,Mysore Circle,Mysore.
The Executive Engineer,Krishnarajasagar Division,Krishnarajasagar.
The Accountant General(through Finance Department),Bangalore.

ncj/

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

37

Sub:-Standard estimate for meeting Telegram charges for obtaining the rain-fall recorded at the several Rain Gauge stations in the catchment above K.R.Sagar Reservoir.

Read:-

Correspondence ending with letter No.4334/TA 4 of 12-5-60 from the Chief Engineer,Irrigation Projects.

PREAMBLE:-

The Chief Engineer,Irrigation Projects,has forwarded a standard estimate amounting to Rs.1200/-for meeting telegram charges each year for obtaining rainfall if more than 1" recorded at the several important Rain Gauge stations during flood seasons from June to September each year for approval of Government. It is reported that the necessity for obtaining the rainfall by telegram is to have a better control of floods at Krishnarajasagar and to regulate with greater emergency to give flood warning and to minimise any havocs to lives and properties below Krishnarajasagar Reservoir.

GOVT.ORDER NO.PWD 1008 KRS 58.
BANGALORE,DATED 11 JUNE 1960.

Under the circumstances,sanction is hereby accorded to the estimate amounting to Rs.1,200/-(Rupees one thousand and two hundred)each year, for meeting telegram charges for obtaining rainfall recorded as mentioned above,commencing from the flood season of 1960-61 and onwards.

The expenditure on this account is debitable under "XVII I:N.E.D.Works".

By Order and in the name of the Governor of Mysore,

C. J. Venkatesa Das 11.6.60

(C.J.VENKATESA DAS)
UNDER SECRETARY TO GOVERNMENT,PWD.

To
The Chief Engineer,Irrigation Projects,Munirabad.
The Superintending Engineer,Mysore Circle,Mysore.
The Executive Engineer,Krishnarajasagar Division,Krishnarajasagar.
The Accountant General(through Finance Department),Bangalore.

ncj/

PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

41

Sub:-Standard estimate for meeting Telegram charges for obtaining the rain-fall recorded at the several Rain Gauge stations in the catchment above K.R.Sagar Reservoir.

Read:-

Correspondence ending with letter No.4334/TA 4 of 12-5-60 from the Chief Engineer,Irrigation Projects.

PREAMBLE:-

The Chief Engineer,Irrigation Projects,has forwarded a standard estimate amounting to Rs.1200/-for meeting telegram charges each year for obtaining rainfall if more than 1" recorded at the several important Rain Gauge stations during flood seasons from June to September each year for approval of Government. It is reported that the necessity for obtaining the rainfall by telegram is to have a better control of floods at Krishnarajasagar and to regulate with greater emergency to give flood warning and to minimise any havocs to lives and properties below Krishnarajasagar Reservoir.

GOVT.ORDER NO.PWD 100 KRS 58.
BANGALORE,DATED 11 JUNE 1960.

Under the circumstances,sanction is hereby accorded to the estimate amounting to Rs.1,200/-(Rupees one thousand and two hundred) each year, for meeting telegram charges for obtaining rainfall recorded as mentioned above,commencing from the flood season of 1960-61 and onwards.

The expenditure on this account is debitable under "XVII I.N.E.D.Works".

By Order and in the name of the Governor of Mysore,

C. J. Venkatesa Das

(C.J.VENKATESA DAS) 11 6 60
UNDER SECRETARY TO GOVERNMENT,PWD.

To
The Chief Engineer,Irrigation Projects,Munirabad.
The Superintending Engineer,Mysore Circle,Mysore.
The Executive Engineer,Krishnarajasagar Division,Krishnarajasagar.
The Accountant General(through Finance Department),Bangalore.

ncj/

4 -

MD P.W.D. 88 ~~KRS~~ 58.
Dated - 9 - 1960.

To

The Chief Engineer,
T.P. Munirabad.

Sir,

Subject:— Rainfall statistics in catchment of KR. Sagar with reference to regulation and maintenance of MWL.

Ref:- Your letter No. KRS/TEC DAM/12/TA2/60-61 of 3-8-1960.

I am directed to state that the concerned Dy. Commissioners have already been addressed ~~requested to accordingly~~ in ~~the~~ Govt. letter of even number dt 18-9-60. as suggested by you.

With regard to the last point on which Govt sanction is required by you viz raising the MWL of the reservoir at 124.64. I am to enclose herewith a copy of C.E. Govt letter No. 686-8/CD dt 7-6-1957 according to which the MWL can be ~~fixed~~ 124.8. It is not clear as to why a proposal is made to Govt. to raise the limit of MWL to 124.64. Please examine the same & clarify the point urgently.

Yours faithfully

Despatched in No. P.W.D.....
Dated.....

23/9

GOVERNMENT OF MYSORE.

No. PWD 88 KRS 58.

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, Dt. 27 September, 1960.
Saka Era 1882.

From

The Secretary to Government,
Public Works & Electricity Department,
BANGALORE.

To

The Chief Engineer,
Irrigation Projects,
Munirabad.

Sir,

Sub:- rainfall statistics in catchment of K.R. Sagar with reference to regulation and maintenance of MWL.

Ref:- Your letter No.KRS/TEC DAM/12/TA2/60-61 of 3-8-1960.

I am directed to state that the concerned Deputy Commissioners have already been addressed in Government letter of even number, dated 18-9-1960 as suggested by you.

With regard to the last point on which Government sanction is required by you viz.,raising the MWL of the reservoir at 124.64,I am to enclose herewith a copy of Chief Engineer,(General)'s letter No.686-8/CD dated 7-6-1957 according to which the M.W.L. can be 124.8. It is not clear as to why a proposal is made to Government to raise the ~~limit of~~ M.W.L. to 124.64 and. Please examine the same and clarify the point urgently.

Yours faithfully,

(C.J.VENKATESA DAS)
Deputy Secretary to Government,
Public Works Department(Irrn.)

ncj/d.26960.

(1)

Appendix F. G.—II

SUBJECT Rainfall Statistics in the Catchment-area of K.R.Sagar with reference to regulation and maintenance of MWL

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 195 .

Date of issue.....

Signed by.....

Despatched in PWD on 14/2/62

Dated 62

List of enclosures .....

Copied by.....

Examined by .....

Section

File No.

Serial No.

No. PWD 88 KRS 58.

To

The Chief Engineer I.P.

Munirabad.

Sir,

Ref: This office letter No. PWD 88 KRS 58 dated 27.9.1960.

I am directed to invite a reference to the communication cited and to request you kindly to furnish a detailed note on the Subject with

your definite recommendations as already called for.

This may please treated as urgent and a reply sent accordingly as the matter has been pending for a very long time.

Yours faithfully

Dy. Secy. to Govt

9/2/62

GOVERNMENT OF MYSORE

No. PWD 88 KRS 58

Mysore Government Secretariat,
Vidhana Soudha,
Bangalore, Dated, 14 February 1962.

From

The Secretary to the Govt. of Mysore,
Public Works Department, Bangalore.

To

The Chief Engineer,
Irrigation Projects, Munirabad.

Sir,

Sub: Rainfall statistics in the catchment area of K.R.Sagar with reference to regulation and maintenance of M.W.L.

Ref: This Office letter No.PWD 88 KRS 58, Dt. 27-9-60.

=====

I am directed to invite a reference to the communication cited and to request you kindly to furnish a detailed note on the subject with your definite recommendations as already called for.

This may please be treated as urgent and a reply sent accordingly as the matter has been pending for a very long time.

Yours faithfully,

(K.B. Murarappa)
Deputy Secretary to Government,
Public Works Department (I).

Sml.13.

GOVERNMENT OF MYSORE. (51).

21667

Mysore Government Secretariat

Requisition for papers

Section PWD

A

B

Filed Col. ... Tech. ...

Deposit No.

File No. PWD 100 KRS 58

Serial No.

To be put up Diary No 7932 of 19 MP-60.

Signature

Branch (Br. Deputy Secy)

Section PWD

Date 15/9/60

25/b

major Irrigation

WD 03557 —GPB—2,000 bks. of 100 pages each—9-9-53

(53)

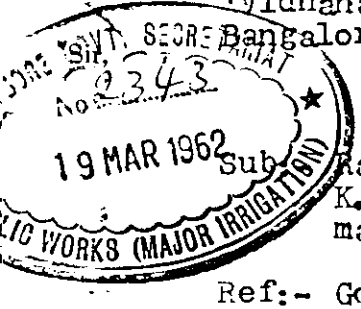
C. F. No. 45.] GOVERNMENT OF MYSORE

OFFICE OF

No. KRS/TEC/DAM/12/TA2/62 ..... IRRIGATION ...
Encls. ..... MUNIRABAD. (S. Rly.) .....

To ✓ Date 13-3-62

The Secretary to Government,
Public Works Department,
Vidhana Soudha, ... 17th March 1962
Bangalore.



Sir,

Sub:- Rainfall statistics in the catchment area of K.R. Sagar with reference to regulation and maintenance of M.W.L.

Ref:- Government letter No. PWD 88 KRS 58 dated 1st February 1962.

The report called for from the Superintending Engineer, Mysore Circle is still awaited. He is again reminded today to expedite the same. The final report will be forwarded to Government soon after receipt of the required particulars from the Superintending Engineer, Mysore Circle.

Yours faithfully,

K. T. Lingaraja
12.3.62
for Chief Engineer
Irrigation Projects.

NH/-12.3.62.

GOVERNMENT OF MYSORE

54

No. PWD 88 KRS 58

Mysore Government Secretariat, 55
'Vidhana Soudha'
Bangalore, Dated, the ....10.1962.

From

The Secretary to the Government of Mysore,
Public Works Department, Bangalore.

To The C.E. I.P. Hunisabad.

Sir,

Subject:- As on page 49 CF a reference

I am directed to invite ~~attention~~ to the Government Letter of even number dated 14-2-1962 and your letter No. KRS/T.C./DAM/12/TA. 162 dated 13-3-1962 on the above subject, and to request you to -- expedite your reply in the matter. ~~within a week.~~

~~This is pending since ...~~

Yours faithfully,

For ~~Deputy~~ Secretary to Government,
Public Works Department (Irrigation).

11/10/62

Gva.(500 Copies)16/4/62.
MGS : MS.

MAS
11/10/62.

57

PWD 88 KRS 58

12th Oct, 1962
16K

Public Works & Electricity Department.

The ChiefEngineer,
Irrigation Projects, Munirabad.

Sir,

Sub: Rainfall statistics in the catchment area of K.R.Sagar with reference to regulation and maintenance of M.W.L.

I am directed to invite a reference to the Government letter of even number dated 14-2-1962 and your letter No.KRS/TEC/DAM/12/TA2/62 dated 13-3-1962 on the above subject, and to request you to expedite your reply in the matter.

Yours faithfully,

O/C

For Secretary to Govt. P.W.D.

BmS.

59

GOVERNMENT OF MYSORE

No. PWD 88 KRS 58

MYSORE GOVERNMENT SECRETARIAT,
VIDHANA SOUDHA,

Dated, Bangalore, 2nd Septr. *196* 3

FROM

Secretary to the Government of Mysore,
Public Works & Electricity Department.

To

The Chief Engineer,
Irrigation Projects, Bangalore.

Sir,

Sub: Rainfall statistics in the catchment area of K.R.Sagar with reference to regulation and maintenance of M.W.L.

==

I am directed to invite a reference to the Govt. letter of even number dated 14-2-1962 and your letter No.KRS/TEC/DAM/12/TA2/62 dated 13.3.62 on the above subject, and to request you to expedite your reply in the matter.

Yours faithfully,

For Secretary to Govt. P.W.D.

BmS.

Despatched in No. P.W.D.. 88 KRS 58
Dated..... 3/9/63.....

(57-61

C. F. No. 45)

GOVERNMENT OF MYSORE

(Public Works Department)

Telegram / Phone

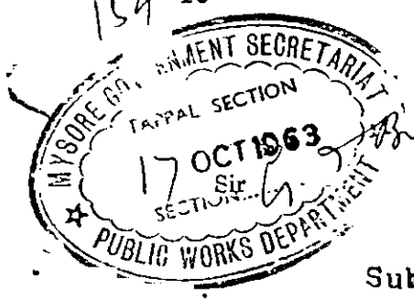
OFFICE OF THE

Chief Engineer, PWD.,
Irrigation Projects in Mysore,
14-B, Cunningham Road, Bangalore-1,

No. KRS/TEC/32/TA2
Encls.

Date 16-10-1963.

154 To



The Secretary to the Government,
Public Works Department,
Vidhana Soudha, Bangalore-1.

Sub: Rainfall Statistics in the statement area of K.R.Sagar with reference to the regulation Statement.

Ref: Government's Letter No.PWD 88 KRS 58 Dated 2nd and 3rd September, 1963.

...

The capacities of the reservoir are verified between levels 123 to 126 by adopting the two formulae.

1) $Y^2 = 4ax$ = As given by Chief Engineer (General) Mysore.

2) $X = \frac{29}{2} Y^2 + 1352 + 42568$ Given by Chief Engineer (Madras)

It is seen from the values got from the above two formulae, the values of capacities obtained by using Madras Chief Engineer's formula, fairly tally with the jointly accepted capacities. There is large variation of the values obtained by adopting the formula given by the Chief Engineer (General). A copy of the statement prepared by the Superintending Engineer, Mysore Circle, is enclosed herein for information.

Yours faithfully,

M Chinnappa

for Chief Engineer, I.P.

D.A.: One Statement with Calculation Sheet.

rpr 11/10

Comparative statement of capacities of K.R.Sagar Reservoir as per Mysore and Madras Calculations, as compared to accepted capacities above 123.00

Contour	Height of Contour Y	Value of X as per formulae X=29 Y2 plus 1352Y Plus 42568(Madras)	Value of Y as per formulae Y2=4 a(Mysore)	Jointly accepted capacity.	Difference of Madras value over accepted value		Difference of Mysore value over accepted value	
					Quantity	Percentage.	Quantity.	Percentage
123.00	-	-	-	42567.75	-	-	-	-
124.00	1.00	43934.50	44697.67	43934.25	0.50 excess	0.001	763.42 excess	1.73
124.64	1.64	44824.28	-	44827.37	4.09 Less	0.009		
124.80	1.90	45050.65	44756. 0	-	-	-	304.65 Less	0.67
124.88	1.88	-	44813. 2	45162.29	-	-	349.09 "	0.77
125.00	2.00	45330.00	45421.50	45329.75	0.25 Excess	0.005	91.75 Excess	0.203
126.00	3.00	46754.50	50240.50	46754.50	-	-	-	-

Remarks.

sd/-for Superintending Engineer,
Mysore Circle.

/copy/

K.M. Subba Rao 15.10.63
for Chief Engineer, P. W. D.
IRRIGATION PROJECTS.

15/x/63

Capacity of K.R.S. Reservoir in the regeon of plus 123.00 to plus 126.00

As per Madras Chief Engineer's equation.

X: $\frac{29\ Y2}{2}$ plus 1352 Y plus 42568

where Y is the contour height above plus 123.00 and X is the capacity. in M.Cft. in that contour.

Y.	Contour		Accepted capacity as per 1924 Agreement. 42567.75 M.Cft.
1.0	124.0	$\frac{29 \times 1^2}{2}$ x 1352 x 1 plus 42568 = 43934.50	43934.25 M.Cft.
1.64	124.64	$\frac{29 \times 1.64^2}{2}$ x 1352 x 1.64 plus 4258 = 44824.28	
2.00	125.00	$\frac{29 \times 2^2}{2}$ x 1352 x 2 plus 42568 = 45330.00	45329.75 M.Cft.
3.00	126.00	$\frac{29 \times 3^2}{2}$ x 1352 x 3 plus 42568 = 46754.50	46754.50 M.Cft.

The capacities worked out as per Madras Chief Engineer's equation tallies with the jointly accepted capacity table.

II. As per Mysore Chief Engineer's equation.

$Y^2 = 4\ a\ x$ where

Y is the contour level

X is the capacity at that contour.

a: value at that contour.

Y	a	X		Capacity jointly accepted as per 1924 agreement.	
120	0.093	38709.68	M.Cft.	68 M.Cft. higher	38641.25 M.Cft.
121	0.091	40222.53	"	301 "	39921.50 "
122	0.090	41344.44	"	114 "	41230.25 "
123	0.088	42980.11	"	413 "	42567.75 "
124	0.086	43697.67	"	763 "	43934.25 "
124.8	0.087(avg)	44756			
124.88	0.087(avg)	44813.2			
125	0.086	45421.51	"	92 "	45329.75 "
126	0.079	50240.50	"	3486 "	46754.50 "

...

sd/-for C.E., Mysore Circle.

/copy/
K. M. Subba Rao
for Chief Engineer, P. W. D. 15.10.63
IRRIGATION PROJECTS.
15/10/63